

WELL SUMMARY

page 1 of 3Location ID: 300-D-153 Field Representative(s): Kaszuba/Cooper/Morse/EganNorthing: 231987.23 Easting: 422914.50Date Started: 25 March 1988 Date Completed: 4 April 1988Drilling Method: Mud/air-foam rotary Drilling Contractor: LarjonDriller: T. Crawford, J. GowerTotal Depth Borehole: 194' Total Depth Well Casing: 179.1'Total Depth Surface Casing: 52'Diameter Well Casing: 4" Diameter Surface Casing: 8"Length of Bottom Blank: 5.3'Type of Screen: regular strength 0.02 slotScreen Interval: 153.1' to 173.8'Water First Detected: 170'-172' (?) Water Level Open Borehole: 159.1'Water Level Cased Borehole: 162' (inner casing)

Quik-Foam Use: 1.2 gallons

Estimated Water Use: 2050 gallons introduced while drilling
2600 gallons in foam pit
550 excess gallons recirculated to surface from
aquifer

Well Casing:

| | |
|-------------------------------|---------------------------|
| 4in x 3ft SCD 40 PVC: | stock SS centralizers: |
| 4in x 5ft SCD 40 PVC: 1 | custom SS centralizers: 1 |
| 4in x 10ft SCD 40 PVC: 13 | 4"x2' SS locking riser: 1 |
| 4in x 20ft SCD 40 PVC: | 4" SS locking cap: 1 |
| Total SCD 40 PVC pipe: 135 ft | 4" SS female cap: 1 |

| | |
|-----------------------------|----------------------------|
| 4in x 3ft SCD 5 SS pipe: | |
| 4in x 5ft SCD 5 SS pipe: 1 | 4in x 5ft SCD 10 SS pipe: |
| 4in x 10ft SCD 5 SS pipe: 2 | 4in x 10ft SCD 10 SS pipe: |
| 4in x 20ft SCD 5 SS pipe: | 4in x 20ft SCD 10 SS pipe: |
| Total SCD 5 SS pipe: 25 ft | Total SCD 10 SS pipe: 0 ft |

Well Completion:

100# bags 16/40 sand: 3 bags
100# bags 10/20 sand: bags
100# bags 8/14 sand: bags
100# bags 8/20 sand: 10 bags

94# bags cement: 45 bags

5 gal. buckets bentonite: 1 buckets

50# bentonite powder: 6 bags

Surface Casing:

94# bags cement: 45 bags

50# bags bentonite powder: 4 bags

Pertinent Field Notes:

3/23/88 Steam clean Franks rig, tools Kaszuba
3/24/88 Testing in 300 Area, begin mobilization/set-up at 1500, mix drilling mud (12 sacks)
3/25/88 Testing in 300 Area until 1500, mix thicker mud and drill 10' with 12 1/4" bit, three sacks bentonite gel mix Cooper
3/28/88 Drill 10'-52' with 12 1/4" bit, set casing to 52' Morse
3/29/88 Grout surface casing
3/30/88 Steam clean CP rig, tools, set-up to drill 7 7/8" borehole, drill 52'-70' Kaszuba
3/31/88 Drill 70'-185', bedrock at 75'. Recovery allowed at 110', 130', 150' & 170, no water detected, possible water 170'-172', probable water 172'-185', certain water at 185'. Use 1650 gallons water with one gallon foam in drilling 3/30-3/31. Sample air through deck and auxiliary compressor filter. Kaszuba
4/1/88 Core 185'-194', 3 3/4" Christiansen core barrel. Use 400 gallons fluid. Geophysical logging by P. Akins of Southwest Surveys.
4/2/88 Bail 165 gallons in open borehole, five VOA samples taken for Tracer and NASA-WSTF. Install bottom bentonite pellet plug, run 4"x20' regular strength screen, 4"x25' schedule 5 stainless steel casing, 4"x135' schedule 40 PVC casing with 2.5' stick up, gravel pack around screen. Top plug is bentonite powder, buffer sand added to protect top plug when grouting. Cooper
4/4/88 Grout, pour pad, set brass cap, use 45 sacks cement, 4 sacks gel. Deck compressor monitor filter collected oil, CP rig in for repairs to compressor (filter last changed 3/19/88, yet significant oil accumulating).

4/5/88 Steam clean and mobilize to develop, bail, slug and pump (see
development data sheet)
4/6/88 Continue well development (see development data sheet)